

WHAT IS CLAIMED IS:

1. A continuous drain hose for an electrical appliance having a water outlet, the drain hose comprising:

a first cylindrical end portion being connectable to the water outlet;

a second end portion being connectable to a drain pipe, the second end portion comprising a bellows that is able to form a permanent bend when a temporary bending force is applied thereto; and

a flexible corrugated portion connected between the first cylindrical end portion and the second end portion.

2. The drain hose of claim 1, wherein the permanent bend is a 180 or 90 degree arc.

3. The drain hose of claim 1, further comprising an elastic connection member integrally molded to the first cylindrical end portion, the elastic connection member being sealably connectable to the water outlet.

4. The drain hose of claim 3, wherein the first cylindrical end portion comprises at least one annular ring externally formed thereon so as to prevent the molded elastic connection member from being disengaged from the first cylindrical end portion.

5. The drain hose of claim 1, wherein the bellows of the second end portion comprises a plurality of folds for forming the permanent bend and a profile of each of the plurality of folds comprises:

an inclined wall extending from a left lower point to a middle peak point; and

a declined wall extending from the middle peak point to a right lower point, wherein a first angle formed between the inclined wall and a vertical axis passing through the middle top point is greater than a second angle formed between the vertical axis and the declined wall.

6. The drain hose of claim 1, wherein the bellows of the second end portion comprises a discharge end which is insertable into the drain pipe.

7. The drain hose of claim 1, wherein the second end portion further comprises a cylindrical portion directly connected to the bellows, the cylindrical portion comprising a discharge end which is insertable into the drain pipe.

8. The drain hose of claim 1, wherein the second end portion further comprises:
a cylindrical portion directly connected to the bellows; and
an elastic connection member integrally molded to the cylindrical portion, the elastic connection member being sealably connectable to the drain pipe.

9. The drain hose of claim 8, wherein the cylindrical portion of the second end portion comprises at least one annular ring externally formed thereon so as to prevent the molded elastic connection member from being disengaged from the second end portion.

10. The drain hose of claim 1, wherein the second end portion further comprises an elastic connection member integrally molded to a portion of the bellows, the elastic connection member being sealably connectable to the drain pipe.

11. The drain hose of claim 1, wherein the bellows of the second end portion is permanently expandable or retractable when a temporary pulling or pressing force is applied thereto.

12. A continuous drain hose for a clothe washing machine or a dish washer having a water outlet, the drain hose comprising:

a first end portion being connectable to the water outlet, the first end portion comprising a first bellows that is able to form a first permanent bend when a first temporary bending force is applied to thereto;

a second end portion being connectable to a drain pipe, the second end portion comprising a second bellows that is able to form a second permanent bend when a second temporary bending force is applied thereto; and

a flexible corrugated portion connected between the first and second end portions.

13. The drain hose of claim 12, wherein the first end portion further comprises a cylindrical portion connected to the first bellows, the cylindrical portion being connectable to the water outlet.

14. The drain hose of claim 12, wherein the first end portion further comprises:

a cylindrical portion directly connected to the first bellows; and

an elastic connection member integrally molded to the cylindrical portion, the elastic connection member being sealably connectable to the water outlet.

15. The drain hose of claim 14, wherein the cylindrical portion of the first end portion comprises at least one annular ring externally formed thereon so as to prevent the molded elastic connection member from being disengaged from the first end portion.

16. The drain hose of claim 12, wherein the first end portion further comprises an elastic connection member integrally molded to a portion of the first bellows, the elastic connection member being sealably connectable to the water outlet.

17. The drain hose of claim 12, wherein the second bellows comprises a discharge end which is insertable into the drain pipe.

18. The drain hose of claim 12, wherein the second end portion further comprises a cylindrical portion directly connected to the second bellows, the cylindrical portion having a discharge end which is insertable into the drain pipe.

19. The drain hose of claim 12, wherein the second end portion further comprises:
a cylindrical portion directly connected to the second bellows; and
an elastic connection member integrally molded to the cylindrical portion, the elastic connection member being sealably connectable to the drain pipe.

20. The drain hose of claim 19, wherein the cylindrical portion of the second end portion comprises at least one annular ring externally formed thereon so as to prevent the molded elastic connection member from being disengaged from the second end portion.

21. The drain hose of claim 12, wherein the second end portion further comprises an elastic connection member integrally molded to a portion of the second bellows, the elastic connection member being sealably connectable to the drain pipe.

22. The drain hose of claim 12, wherein each of the first and second permanent bends is a 180 or 90 degree arc.

23. The drain hose of claim 12, wherein each of the first and second bellows comprises a plurality of folds and a profile of each of the plurality of folds comprises:

an inclined wall extending from a left lower point to a middle peak point; and

a declined wall extending from the middle peak point to a right lower point,

wherein a first angle formed between the inclined wall and a vertical axis passing through the middle top point is greater than a second angle formed between the vertical axis and the declined wall.

24. The drain hose of claim 12, wherein each of the first and second bellows is permanently expandable or retractable when a temporary pulling or pressing force is applied thereto.

25. A continuous drain hose for a cloth washing machine or a dish washer having a water outlet, the drain hose comprising:

a first end portion being connectable to the water outlet, the first end portion comprising a first bellows that is able to form a first permanent bend when a first temporary bending force is applied thereto;

a second end portion being connectable to a drain pipe, the second end portion comprising a second bellows that is able to form a second permanent bend when a second temporary bending force is applied thereto;

a third bellows that is able to be permanently expanded or retracted when a first temporary pulling or pressing force is applied thereto;

a first flexible corrugated portion connected between the first end portion and the third bellows; and

a second flexible corrugated portion connected between the third bellows and the second end portion.

26. The drain hose of claim 25, wherein the first end portion further comprises a cylindrical portion connected to the first bellows, the cylindrical portion being directly connectable to the water outlet.

27. The drain hose of claim 25, wherein the first end portion further comprises:

a cylindrical portion connected to the first bellows; and

an elastic connection member integrally molded to the cylindrical portion, the elastic connection member being sealably connectable to the water outlet.

28. The drain hose of claim 27, wherein the cylindrical portion of the first end portion comprises at least one annular ring externally formed thereon so as to prevent the molded elastic connection member from being disengaged from the first end portion.

29. The drain hose of claim 25, wherein the first end portion further comprises an elastic connection member integrally molded to a portion of the first bellows, the elastic connection member being sealably connectable to the water outlet.

30. The drain hose of claim 25, wherein the second bellows comprises a discharge end which is insertable into the drain pipe.

31. The drain hose of claim 25, wherein the second end portion further comprises a cylindrical portion directly connected to the second bellows, the cylindrical portion having a discharge end which is insertable into the drain pipe.

32. The drain hose of claim 25, wherein the second end portion further comprises:
a cylindrical portion directly connected to the second bellows portion, and
an elastic connection member integrally molded to the cylindrical portion, the elastic connection member being sealably connectable to the drain pipe.

33. The drain hose of claim 32, wherein the cylindrical portion of the second end portion comprises at least one annular ring externally formed thereon so as to prevent the molded elastic connection member from being disengaged from the second end portion.

34. The drain hose of claim 25, wherein the second end portion further comprises an elastic connection member integrally molded to a portion of the second bellows, the elastic connection member being sealably connectable to the drain pipe.

35. The drain hose of claim 25, wherein each of the first and second permanent bends is a 180 or 90 degree arc.

36. The drain hose of claim 25, wherein each of the first, second and third bellows comprises a plurality of folds and a profile of each of the plurality of folds comprises:
an inclined wall extending from a left lower point to a middle peak point; and
a declined wall extending from the middle peak point to a right lower point,
wherein a first angle formed between the inclined wall and a vertical axis passing through the

middle top point is greater than a second angle formed between the vertical axis and the declined wall.

37. The drain hose of claim 25, wherein each of the first and second bellows is also permanently expandable or retractable when a second temporary pulling or pressing force is applied thereto.

38. The drain hose of claim 25, wherein the third bellows is able to form a third permanent bend when a third temporary bending force is applied thereto.